

RIGICEL**SECTION 1. IDENTIFICATION**

Product Identifier	RIGICEL
Other Means of Identification	SOL-RIGICEL
Recommended Use	Amine accelerator aCELERATOR, used to modify reactivity time of the grout. MQ
Manufacturer/Supplier Identifier	SOLUTIONS, 1522 Boulevard des Laurentides, Laval, Qc, H7M 2N7, Marc Charlebois, 877-267-7249, www.lafarge.ca/en/bmq-solutions
Supplier Identifier	BMQ SOLUTIONS, 1522 Boulevard des Laurentides, Laval, Qc, H7M 2N7, Marc Charlebois, 877-267-7249, www.lafarge.ca/en/bmq-solutions
Emergency Phone No.	Marc Charlebois, 514-705-7198, 24 Hres/ 7 Jours CANUTEC, 613-996-6666, 24HR/7Jours
SDS No.	0264

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

Label Elements

Signal Word:

Warning

Pressurized container: may burst if heated.

Heating may cause an explosion.

Toxic if swallowed or in contact with skin.

Toxic if inhaled.

May cause respiratory irritation.

Toxic to aquatic life.

May cause long lasting harmful effects to aquatic life.

Precautionary Statement(s):

Prevention:

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Keep container tightly closed.

Keep cool. Protect from sunlight.

Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not get in eyes, on skin, or on clothing.

Wash hands and skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection. NIOSH approved air-purifying respirator with an organic vapour cartridge

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

In Case CONTACT WITH SKIN: Wash thoroughly with water and mild soap.

Take off contaminated clothing

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Product Identifier:	RIGICEL
SDS No.:	0264
Date of Preparation:	juillet 12, 2016

Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Take off immediately all contaminated clothing and wash it before reuse. carbon dioxide dry chemical powder

Storage:

Store in accordance with local, regional, national and international regulations.

Store in a dry place. Store in a closed container.

Store in a well-ventilated place. Keep cool.

Protect from sunlight.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Dibutyl maleate	105-76-0	>52	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing.

Skin Contact

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash promptly with soap and water. A soothing ointment could be applied after washing skin if exposed or concerned, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Seek medical attention for abrasion and burns.

Ingestion

DO NOT INDUCE VOMITING have victim drink water or milk, if conscious if vomiting is inevitable, prevent aspiration by keeping the victims head below the knee never give anything by mouth to unconscious person immediately call a Poison Centre or doctor.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled: can cause severe irritation of the nose and throat. Respiratory sensitizer. May cause asthma or an asthma-like reaction in some people. If swallowed: symptoms may include nausea, vomiting, stomach cramps and diarrhea. May cause moderate to severe irritation. If on skin: may cause moderate to severe irritation. If in eyes: may cause moderate to severe irritation. Symptoms include pain, redness, and swelling. Inflammation and cornea opacity.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, digestive system, liver, respiratory system, skin.

Medical Conditions Aggravated by Exposure

Asthma, dermatitis, eye conditions, respiratory conditions, skin allergies, skin conditions.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Small fire: Carbon dioxide, dry chemical powder or appropriate foam. Large fire: Fire fighting foam suitable for the situation.

Specific Hazards Arising from the Product

Can ignite if strongly heated. Vapours are heavier than air and may travel along the ground or may be moved by ventilation and ignited by ignition sources at locations distant from material handling points. exposure to flames or arc welding can produce highly toxic gases due to the thermal decomposition or combustion of

the product.

May include but not limited to Carbon oxides corrosive, oxidizing nitrogen oxides.

Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours. Wear full Bunker gear and respiratory protection (SCBA) Self contained NIOSH approved breathing apparatus should be available for fire fighters.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn. See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet. Eliminate all ignition sources if safe to do so.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Small spills or leaks: absorb material with earth, sand or another non-combustible product. Do not touch the spilled product. Large spills or leaks: dike and recover contaminated water for appropriate disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe in this product. Do not get in eyes, on skin or on clothing. Prevent all skin contact. Use adequate ventilation and employ respiratory protection where dust or fumes may be generated eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Wear personal protective equipment to avoid direct contact with this chemical. Keep containers tightly closed when not in use or empty. Do NOT smoke in work areas. Do NOT eat, drink or store food in work areas. Wash hands thoroughly after handling this product and before eating, using the washroom or leaving work area. Launder clothes before re-wearing. Inform laundry personnel of product hazard(s).

Conditions for Safe Storage

Store away from heat and flame store in an area that is: cool, dry, well-ventilated, out of direct sunlight and away from heat and ignition sources.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Dibutyl maleate	Not established		Not established			

Appropriate Engineering Controls

General ventilation is usually adequate. Concentrations greater than TLV can occur when MDI is used in a poorly ventilated area. In such cases, or whenever concentrations of MDI exceed the TLV, respiratory protection must be worn. A supplied air respirator or a positive pressure self-contained breathing apparatus is recommended. In situations where MDI is not sprayed or heated and a supplied air or self-contained apparatus is unavailable or its use impractical, at least an air purifying respirator equipped with an organic cartridge and a particulate filter must be worn. However, this should be permitted only for short periods of time (less than one hour) at relatively low concentrations (at or near the TLV). However, due to the poor warning properties of MDI, proper fit and timely replacement of filter elements must be insured. Observe OSHA Regulations for respirator usage (29 CFR Part 1910.134). Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Product Identifier: RIGICEL
SDS No.: 0264
Date of Preparation: juillet 12, 2016

Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

When ventilation is inadequate wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Light yellow. Particle Size: Not available
Odour	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting); -8 °F (-22 °C) (freezing)
Initial Boiling Point/Range	140 °F (60 °C)
Flash Point	> 300 °F (149 °C)
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	< 0.1 mm Hg at 68 °F
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	0.921 at 68 °F
Solubility	Insoluble in water; Soluble in all proportions in common organic solvents.
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); 15 centipoises (dynamic)
Other Information	
Physical State	Liquid
Molecular Formula	Not available
Molecular Weight	Not available
Bulk Density	Not available
Critical Temperature	Not available
Saturated Vapour Concentration	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

None known.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), strong acids (e.g. hydrochloric acid).

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Product Identifier: RIGICEL
SDS No.: 0264
Date of Preparation: juillet 12, 2016

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Dibutyl maleate	< 5000 mg/m ³ (rat) (4-hour exposure)	3730 mg/m ³ (rat)	10010 mg/kg (rabbit)

Skin Corrosion/Irritation

May cause moderate or severe irritation based on information for closely related materials. Symptoms include pain, redness, and swelling. May cause skin sensitization by contact with skin..

Serious Eye Damage/Irritation

May cause serious eye irritation based on information for closely related materials. May irritate or burn the eyes. Permanent damage including blindness may result.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Nose and throat irritation.

Skin Absorption

Repeated exposure can cause produce local skin destruction or dermatitis.

Ingestion

Irritation of the mouth, throat and stomach. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

Respiratory and/or Skin Sensitization

Can produce respiratory tract irritation respiratory sensitizer.

SECTION 12. ECOLOGICAL INFORMATION

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations. Do not dispose into drains, waterways or sewers. Do not reuse empty containers.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

SECTION 16. OTHER INFORMATION

NFPA Rating Health - 3 Flammability - 1 Instability - 0

SDS Prepared By 6 AE 'Gc`i H`cb

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Key to Abbreviations ACGIH® = American Conference of Governmental Industrial Hygienists
IARC = International Agency for Research on Cancer
NFPA = National Fire Prevention Association
NIOSH = National Institute for Occupational Safety and Health
NTP = National Toxicology Program
OSHA = US Occupational Safety and Health Administration

References CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault

Product Identifier: RIGICEL

SDS No.: 0264

Date of Preparation: juillet 12, 2016

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